

# Molded case circuit breakers

## Susol MCCB 100AF to 800AF Series

		TE100	TE160	TD100	TD160							
Frame size	[AF]	100	160	100	160							
Rated current, In *	[A]	16~100	100,125,160	16, 20, 25, 32, 40, 50, 63, 80, 100	1P: 16, 20, 25, 32, 40, 50, 63, 80,100,125, 160 2, 3P: 100, 125, 160							
No. of poles		3,4	3,4	2*, 3, 4	1, 2*, 3, 4							
Rated operational voltage, Ue	AC	690	690	690	240(1P), 690							
	DC	500	500	500	250(1P), 500							
Rated impulse withstand voltage, Uimp	[kV]	8	8	8	8							
Rated insulation voltage, Ui	[V]	750	750	750	750							
Rated ultimate short-circuit breaking capacity, Icu		S	N	S	N	N	H	L	N	H	L	
AC 50/60Hz	220/240V	50	85	50	85	85	100	200	30(1P) 85	50(1P) 100	200	
	380/415V	37	50	37	50	50	85	150	50	85	150	
	440/460V	25	37	25	37	50	70	130	50	70	130	
	480/500V	18	25	18	25	30	50	65	30	50	65	
DC	660/690V	6	8	6	8	5	8	10	5	8	10	
	250V	37	50	37	50	42	65	100	16(1P) 42	25(1P) 65	100	
	500V(2poles in series)	37	50	37	50	42	65	100	42	65	100	
Rated service breaking capacity, Ics	[%Icu]	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Rated short-circuit making capacity Icm												
AC 50/60Hz	220/240V	105	187	105	187	187	220	440	105(1P) 187	105(1P) 220	440	
	380/415V	77.7	105	77.7	105	105	187	330	105	187	330	
	440/460V	52.5	77.7	52.5	77.7	105	154	286	105	154	286	
	480/500V	36	52.5	36	52.5	63	105	143	63	105	143	
	660/690V	9.2	13.6	9.2	13.6	8	14	17	8	14	17	
Category of utilization		A	A	A	A							
Isolation behavior		●	●	●	●							
Trip unit (release)												
Thermal-Magnetic												
● fixed-thermal, fixed-magnetic	FTU	●	●							●		
● adjustable-thermal, fixed-magnetic	FMU									●**		
● adjustable-thermal, adjustable-magnetic	ATU	●	●							-		
● magnetic only	MTU	-	-	-	-	-	-	-	-	-	-	
Electronic												
● LSI	ETS	-	-	-	-	-	-	-	-	-	-	
● LSI	ETM	-	-	-	-	-	-	-	-	-	-	
Option	Earth-fault protection, Ig	-	-	-	-	-	-	-	-	-	-	
	Zone selective interlocking, ZSI	-	-	-	-	-	-	-	-	-	-	
	Ammeter	-	-	-	-	-	-	-	-	-	-	
	Communication	-	-	-	-	-	-	-	-	-	-	
	Earth-leakage protection module	-	-	-	-	-	-	-	-	-	-	
Connection	fixed	front-connection	●	●	●	●	●	●	●	●	●	
		rear-connection	●	●	●	●	●	●	●	●	●**	
	plug-in	front-connection	-	-	-	-	-	-	-	-	-	●**
		rear-connection	-	-	-	-	-	-	-	-	-	●**
Mechanical life	[operations]	25000	25000	25000	25000	25000	25000	25000	25000	25000		
Electrical life @ 415 V AC	[operations]	10000	10000	10000	10000	10000	10000	10000	10000	10000		
Basic dimensions, W×H×D (front connection)	1-pole	[mm]	-	-	-	-	-	-	-	-	35×140×86	
	3-pole	[mm]	76×130×82	76×130×82	76×130×82	76×130×82	90×140×86	90×140×86	90×140×86	90×140×86	90×140×86	
	4-pole	[mm]	101×130×82	101×130×82	101×130×82	101×130×82	120×140×86	120×140×86	120×140×86	120×140×86	120×140×86	
Weight (front connection)	1-pole	[kg]	-	-	-	-	-	-	-	-	0.57	
	3-pole	[kg]	1.05	1.05	1.05	1.05	1.5	1.5	1.5	1.5	1.5	
	4-pole	[kg]	1.35	1.35	1.35	1.35	1.8	1.8	1.8	1.8	1.8	
Reference standard		IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	

Note) ● applicable or available

\* Applicable to MCCBs equipped with FTU, FMU, ATU \*\* Not applicable to 1pole  
\* 2 pole MCCB in 3pole frame size

※ The trip unit ATU is available from 125A

